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L7	35	6 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:25
L8	6	proxy with register\$9 with ip with (foreign fa)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 10:58
L9	76	proxy same (registra\$9 register\$9) same ip same (foreign fa)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 10:58
L10	27	9 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:36
L18	136	proxy near9 retriev\$5 near9 (ip address\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:36
L19	56	18 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:37
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L21	5	18 and @ad<"20010404" and (ip near9 (register\$5 registrat\$6))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 12:40
L33	126	(gateway proxy) near9 (registr\$8 register\$8) near9 (node\$5 mobile\$5 mn) with ip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:11
L34	43	33 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:11
L35	31	(gateway proxy) near9 (registr\$8 register\$8) near9 (foreign fa) with ip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:11
L36	14	35 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:11
L37	24	(proxy adj mobile\$3 adj node\$3) and ((register\$6 registrat\$6) with ip)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:25
L38	6	37 and @ad<"20010404"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 14:25
S1	4	((("6466964") or ("6658258"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 17:56

S2	2	S1 and (register\$5 with ip)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:26
S4	3	(proxy) with retriev\$5 with (ip adj address\$3) with (mobile and foreign and home)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:32
S5	8	(proxy) with retriev\$5 with (ip adj address\$3) with (mobile foreign fa ha home)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:36
S6	215	proxy near mobile\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:36
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S8	6	proxy adj (mn mobile\$3) with register\$9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:39
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S12	171	proxy with register\$9 with ip	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/18 18:44
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S14	6	proxy with register\$9 with ip with (foreign fa)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/01/19 10:56
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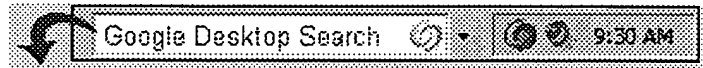
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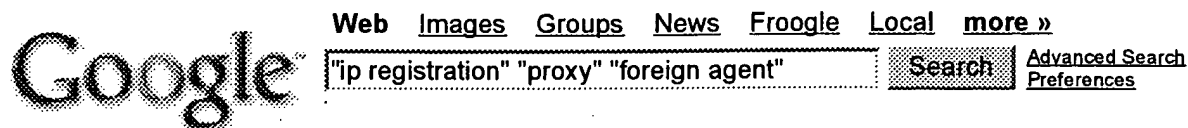


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1 [A public-key based secure mobile IP](#)

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent

October 1999 **Wireless Networks**, Volume 5 Issue 5**Publisher:** Kluwer Academic PublishersFull text available: pdf(255.65 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [MRSVP: a resource reservation protocol for an integrated services network with mobile hosts](#)

Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya

January 2001 **Wireless Networks**, Volume 7 Issue 1**Publisher:** Kluwer Academic PublishersFull text available: pdf(259.27 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)
Keywords: integrated services, internet protocols, mobility, multimedia, quality of service, reservation protocol

3 [Mobile IP and the IETF](#)

Charles E. Perkins

 April 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 2
Publisher: ACM PressFull text available: pdf(631.96 KB) Additional Information: [full citation](#), [index terms](#)

4 [Mobility support using SIP](#)

Elin Wedlund, Henning Schulzrinne

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5 [IP micro-mobility protocols](#)



Andrew T. Campbell, Javier Gomez-Castellanos

October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4**Publisher:** ACM PressFull text available: pdf(1.12 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

**6** A public-key based secure mobile IP

John Zao, Stephen Kent, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking****Publisher:** ACM PressFull text available: pdf(1.95 MB) Additional Information: [full citation](#), [references](#), [citations](#)**7** Modeling mobile IP in mobile UNITY

Peter J. McCann, Gruia-Catalin Roman

April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 2**Publisher:** ACM PressFull text available: pdf(344.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

With recent advances in wireless communication technology, mobile computing is an increasingly important area of research. A mobile system is one where independently executing components may migrate through some space during the course of the computation, and where the pattern of connectivity among the components changes as they move in and out of proximity. Mobile UNITY is a notation and proof logic for specifying and reasoning about mobile systems. In this article it is argued that Mobile ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

**8** Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic PublishersFull text available: pdf(166.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

**9** Mobile IP

Debalina Ghosh

December 2000 **Crossroads**, Volume 7 Issue 2**Publisher:** ACM PressFull text available: html(49.21 KB) Additional Information: [full citation](#), [index terms](#)

10 Scalable support for transparent mobile host internetworking

David B. Johnson

August 1995 **Wireless Networks**, Volume 1 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  pdf(1.10 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper considers the problem of providing transparent support for very large numbers of mobile hosts within a large internetwork such as the Internet. The availability of powerful mobile computing devices and wireless networking products and services is increasing dramatically, but internetworking protocols such as IP used in the Internet do not currently support host movement. To address this need, the Internet Engineering Task Force (IETF) is currently developing protocols for mobile ...

11 Location update and routing scheme for a mobile computing environment


Anna Hać, Yujing Huang

July 2000 **International Journal of Network Management**, Volume 10 Issue 4**Publisher:** John Wiley & Sons, Inc.Full text available:  pdf(332.32 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a new hierarchical location update and routing scheme for a wide area mobile computing environment with scalability of network hierarchy. Our scheme provides nearly optimal routing for most communication bypassing the mobile host's home network and home agent. We use simulation to compare our scheme with other schemes in both non-hierarchical and hierarchical network architectures. Copyright © 2000 John Wiley & Sons, Ltd.

12 Challenges for nomadic computing: mobility management and wireless communications

Thomas F. La Porta, Krishan K. Sabnani, Richard D. Gitlin

August 1996 **Mobile Networks and Applications**, Volume 1 Issue 1**Publisher:** Kluwer Academic PublishersFull text available:  pdf(321.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we present several challenges and innovative approaches to support nomadic computing. The nomadic computing environment is characterized by mobile users that may be connected to the network via wired or wireless means, many of whom will maintain only intermittent connectivity with the network. Furthermore, those accessing the network via wireless links will contend with limitations of the wireless media. We consider three general techniques for addressing these challenges: (1 ...

13 Papers: A novel approach to mobility management

Ron Hutchins, Tracy Camp, Philip H. Enslow

January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1**Publisher:** ACM PressFull text available:  pdf(1.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose a novel approach to computer mobility. Our approach allows mobility to be rapidly deployed, as the networking infrastructure required for deployment is available off the shelf. Furthermore, a mobile node does not require modifications in order to use these mobile services. While our approach provides rapid deployment and supports both IP and non-IP protocols, only a subset of mobile usage scenarios are offered. In other words, our approach does not solve all the problem ...

14 Mobile multicast (MoM) protocol: multicast support for mobile hosts

Tim G. Harrison, Carey L. Williamson, Wayne L. Mackrell, Richard B. Bunt

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on**

Mobile computing and networking**Publisher:** ACM Press

Full text available: pdf(1.63 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15 Fast and scalable wireless handoffs in supports of mobile Internet audio**

Ramón Cáceres, Venkata N. Padmanabhan

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic Publishers

Full text available: pdf(187.08 KB)

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Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the I ...

16 Fast and scalable handoffs for wireless internetworks

Ramón Cáceres, Venkata N. Padmanabhan

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking****Publisher:** ACM Press

Full text available: pdf(1.35 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17 Secure and mobile networking**

Vipul Gupta, Gabriel Montenegro

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4**Publisher:** Kluwer Academic Publishers

Full text available: pdf(223.39 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The IETF Mobile IP protocol is a significant step towards enabling nomadic Internet users. It allows a mobile node to maintain and use the same IP address even as it changes its point of attachment to the Internet. Mobility implies higher security risks than static operation. Portable devices may be stolen or their traffic may, at times, pass through links with questionable security characteristics. Most commercial organizations use some combination of source-filtering routers, sophisticate ...

18 Mobile IP and the IETF

Charles E. Perkins

July 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 3**Publisher:** ACM Press

Full text available: pdf(645.70 KB)

Additional Information: [full citation](#), [index terms](#)**19 Composable ad hoc location-based services for heterogeneous mobile clients**

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5**Publisher:** Kluwer Academic Publishers

Full text available: pdf(403.18 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**HMIPv6: A hierarchical mobile IPv6 proposal**

Claude Castelluccia





January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1**Publisher:** ACM PressFull text available:  pdf (1.50 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The IETF Mobile IPv6 protocol has been developed to manage global (macro) mobility. It is not adapted to local (micro) mobility since it does not support any kind of hierarchy. This paper presents a hierarchical protocol, built on top of Mobile IPv6, that separates local mobility (within a site) from global mobility (across sites) management. Local handoffs are managed locally and transparently to a mobile node's correspondent hosts while global mobility is managed with Mobile IPv6. Our scheme i ...

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